

ABSTRACT

5 An adaptive cruise control system includes
a forward-looking sensor generating a range signal
corresponding to a distance between the host vehicle
and a target vehicle. The forward-looking sensor
also generates a range rate signal corresponding to a
rate that the distance between the host vehicle and
the target vehicle is changing. A controller is
electrically coupled to the forward-looking sensor.
10 The controller maintains a preset headway distance
between the host vehicle and the target vehicle by
adjusting the host vehicle velocity in response to
the range signal and the range rate signal. The host
vehicle may come to a full stop when the target
15 vehicle is acquired below a predetermined velocity.
If the target vehicle is acquired above the
predetermined velocity, then a warning is given when
braking is required.

105-113